M 4.0, 15km NNW of Lake Pillsbury, CA
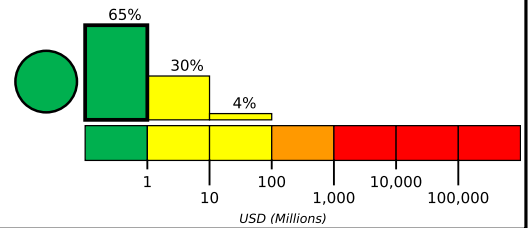
Origin Time: 2021-04-23 11:18:40 UTC (Fri 04:18:40 local)
Location: 39.5285° N 123.0370° W Depth: 6.6 km

PAGER
Version 3

Created: 1 hour, 3 minutes after earthquake

Estimated Fatalities

69%
29%

1   10   100   1,000   10,000   100,000
Fatalities

Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.
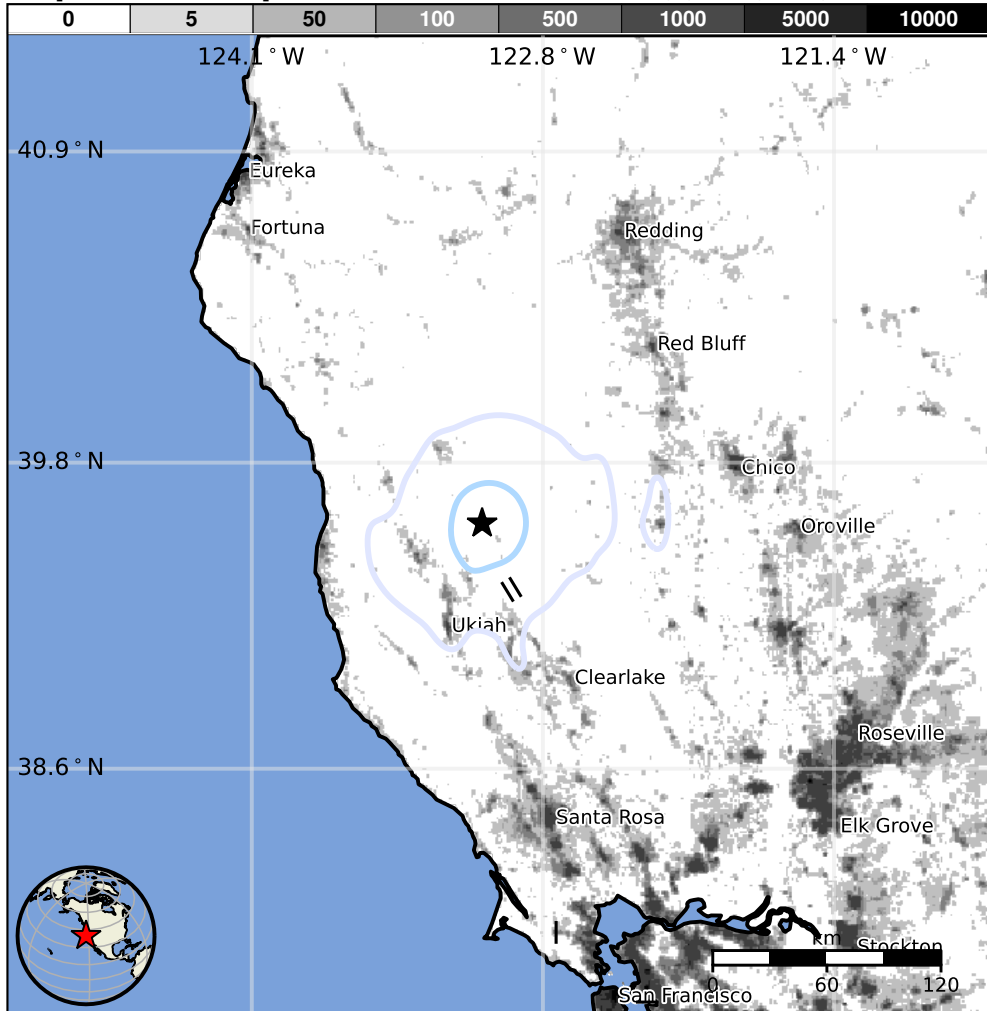
Estimated Economic Losses

65%
30%
4%

1   10   100   1,000   10,000   100,000
USD (Millions)

Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		8,614k*	99k	0	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure

population per 1 sq. km from Landscan

0   5   50   100   500   1000   5000   10000

Structures

Overall, the population in this region resides in structures that are highly resistant to earthquake shaking, though some vulnerable structures exist. The predominant vulnerable building types are unreinforced brick masonry and reinforced masonry construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1993-09-21	320	6.0	VI(47k)	1
1980-01-24	231	5.8	VII(35k)	1
1989-10-18	290	6.9	VIII(109k)	62

Recent earthquakes in this area have caused secondary hazards such as landslides and liquefaction that might have contributed to losses.

Selected City Exposure

from GeoNames.org

MMI	City	Population
II	Redwood Valley	2k
II	Covelo	1k
II	Willits	5k
II	Upper Lake	1k
II	**Ukiah**	**16k**
II	Talmage	1k
I	Sacramento	466k
I	**San Francisco**	**805k**
I	Oakland	391k
I	**Stockton**	**292k**
I	**Santa Rosa**	**168k**

bold cities appear on map.   (k = x1000)

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.
https://earthquake.usgs.gov/earthquakes/eventpage/nc73553370#pager

Event ID: nc73553370